ABSTRACT OF THE DISCLOSURE

An automated method for recycling mixed colored cullet glass (i.e., broken pieces of glass of mixed colors and types) into new glass products. A computer controlled process identifies the virgin glass raw materials, the desired target glass properties, the composition of a batch of mixed colored cullet, and the quantity of cullet to be used in the glass melt, and the computer controlled process automatically determines the proper amounts of raw materials to add to the batch of mixed colored cullet so that recycled glass is produced having the desired coloring oxides, redox agents, and glass structural oxides in the proper proportion. The recycled glass is then used to make glass products such as beer bottles.